

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017214 A1

(51) International Patent Classification⁷: **C21D 1/76**,
C23C 2/06, C21D 8/04

(21) International Application Number:
PCT/JP2004/012223

(22) International Filing Date: 19 August 2004 (19.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-207881 19 August 2003 (19.08.2003) JP

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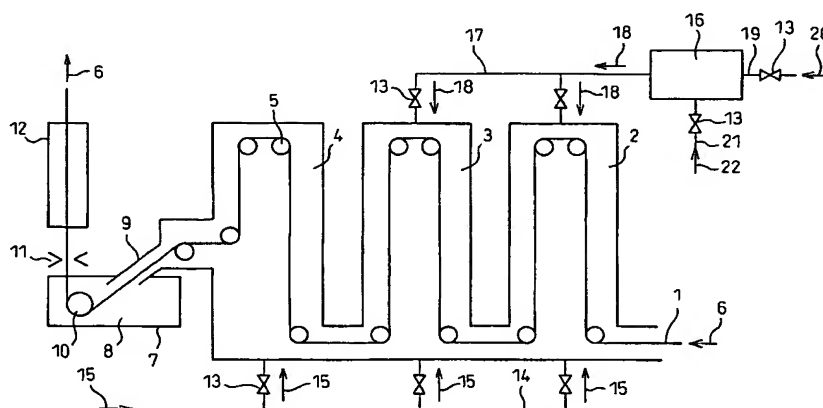
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: PROCESS OF PRODUCTION AND PRODUCTION SYSTEM OF HIGH STRENGTH GALVANNEALED STEEL SHEET



(57) Abstract: A process of production for producing a high strength galvanized steel sheet by a hot-dip galvanized steel sheet production equipment using an all-radiant tube type annealing furnace and a production equipment for the same are provided, comprising continuously hot-dip galvanizing a high-strength steel sheet having a content of Si of 0.4 to 2.0 wt.% during which making the atmosphere of the reducing zone an atmosphere containing H₂ to 1 to 60 wt.% and comprised of the balance of N₂, H₂O, O, CO₂, CO, and unavoidable impurities, controlling the log (PCO₂/PH₂) of the carbon dioxide partial pressure and hydrogen partial pressure in the atmosphere to log (PCO₂/PH₂) ≤ -0.5 and the log (PCO₂/PH₂) of the water partial pressure and hydrogen partial pressure to log (PH₂O/PH₂) ≤ -0.5, and controlling the log (P_T/PH₂) of the total partial pressure P_T of the carbon dioxide partial pressure PCO₂ and water partial pressure PH₂O and the hydrogen partial pressure to -3 ≤ log(P_T/PH₂) ≤ -0.5.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

- *with international search report*
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